

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-10 (Canceled).

11. (New) An error concealing apparatus comprising:

a detection section that detects, when an error frame is generated, a non-error frame prior to said error frame;

a decision section that decides whether the detected non-error frame is a speech frame or an audio frame;

a replacement speech frame generation section that generates a replacement frame for said error frame from the non-error frame decided to be a speech frame through processing suitable for a speech frame;

a replacement audio frame generation section that generates a replacement frame for said error frame from the non-error frame decided to be an audio frame through processing suitable for an audio frame; and

a replacement section that replaces the replacement frame generated by said replacement speech frame generation section or said replacement audio frame generation section with said error frame and conceals said error frame.

12. (New) The error concealing apparatus according to claim 11, wherein said replacement audio frame generation section comprises:

a transient signal detection section that detects a start position of a transient signal included in said non-error frame; and

an exclusion section that excludes parts before the start position of the transient signal detected by said transient signal detection section from said non-error frame in generating said replacement frame.

13. (New) The error concealing apparatus according to claim 12, wherein said replacement audio frame generation section comprises:

a division section that divides said non-error frame decided to be an audio frame into signals of a plurality of frequency bands; and

a generation section that generates said replacement frame by performing extrapolation on said signals of a plurality of frequency bands.

14. (New) The error concealing apparatus according to claim 12, wherein said replacement audio frame generation section comprises:

a division section that divides said non-error frame decided to be an audio frame into signals of a plurality of frequency bands;

a computation section that computes the degree of periodicity for each of said signals of a plurality of frequency bands; and

a generation section that generates said replacement frame by performing processing corresponding to the degree of periodicity computed by said computation section on said signals of a plurality of frequency bands respectively.

15. (New) The error concealing apparatus according to claim 14, wherein said generation section replaces said signal with noise or other signals obtained by said division section when the degree of periodicity computed by said computation section is low and performs extrapolation on said signal when the degree of periodicity computed by said computation section is high.

16. (New) The error concealing apparatus according to claim 12, wherein said replacement speech frame generation section comprises:

a duplication section that generates a replica of part of said non-error frame; and

an adjusting section that adjusts a replacement position of said replica with respect to said error frame such that a pitch period of said replica matches a pitch period of said non-error frame.

17. (New) The error concealing apparatus according to claim 12, wherein said replacement speech frame generation section comprises:

a duplication section that duplicates part of said non-error frame;

an adjusting section that adjusts a duplication segment in said duplication section such that a pitch period of the replica obtained by said duplication section matches a pitch period of said non-error frame; and

a generation section that generates said replacement frame using the replica obtained by said duplication section.

18. (New) The error concealing apparatus according to claim 12, wherein said replacement section performs smoothing on a frame boundary of the replacement frame generated by said replacement speech frame generation section or said replacement audio frame generation section.

19. (New) A communication terminal apparatus comprising the error concealing apparatus according to claim 12.

20. (New) An error concealing method comprising:

a detection step of detecting, when an error frame is generated, a non-error frame prior to said error frame;

a decision step of deciding whether the detected non-error frame is a speech frame or an audio frame;

a replacement speech frame generation step of generating a replacement frame of said error frame from the non-error frame decided to be a speech frame through processing suitable for a speech frame;

a replacement audio frame generation step of generating a replacement frame of said error frame from the non-error frame decided to be an audio frame through processing suitable for an audio frame; and

a replacement step of replacing the replacement frame generated in said replacement speech frame generation step or said replacement audio frame generation step with said error frame and concealing said error frame.